

# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

	IDENTIFICATION
1. Company Name	Eagle Precast Company
2. Facility Name (if different than #1)	Eagle Precast Company, Caldwell, Idaho
3. Facility I.D. No.	NA
4. Brief Project Description:	Cement Batch Plant
	FACILITY INFORMATION
5. Owned/operated by: (√ if applicable)	Federal government County government State government City government
6. Primary Facility Permit Contact Person/Title	Robert Walker, Plant Manager
7. Telephone Number and Email Address	(208) 454-8116
8. Alternate Facility Contact Person/Title	Bill Howes
9. Telephone Number and Email Address	(801) 5140859; howesgirls@gmail.com
10. Address to which permit should be sent	20059 Simplot Bld
11. City/State/Zip	Caldwell, ID
12. Equipment Location Address (if different than #9)	Outside Greenleaf
13. City/State/Zip	Canyon County, Idaho
14. Is the Equipment Portable?	∑ Yes
15. SIC Code(s) and NAISC Code	Primary SIC: 3273 Secondary SIC (if any): NAICS:
16. Brief Business Description and Principal Product	Cement Batch Plant
17. Identify any adjacent or contiguous facility that this company owns and/or operates	
	PERMIT APPLICATION TYPE
18. Specify Reason for Application	New Facility       □ New Source at Existing Facility         □ Modify Existing Source: Permit No.: Date Issued:         □ Unpermitted Existing Source: □ Required by Enforcement Action: Case No.:
	CERTIFICATION
IN ACCORDANCE WITH IDAPA 58.01.01.123 (F	RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED , THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.
19. Responsible Official's Name/Title	Robert L. Wolker
20. RESPONSIBLE OFFICIAL SIGNATI	
21. Check here to indicate you would	d like to review a draft permit prior to final issuance.

RECEIVED

FEB 2 0 2007



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 877-5PERMIT

# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

C	OMPAN'	Y NAME, FACILITY NAME, AND FACILITY ID NUMBI	ĒR
1. Compar	ny Name	Eagle Precast Company	
2. Facility	Name	Eagle Precast Company, 3. Facility ID No. NA Caldwell, Idaho	
	oject Descri nce or less	ption - Cement Batch Plant	
		PERMIT APPLICATION TYPE	
		☐ New Source at Existing Facility ☐ Unpermitted Existing So	ource
		Source: Permit No.: Date Issued: forcement Action: Case No.:	
	or PTC	Major PTC	
		FORMS INCLUDED	
Included	N/A	Forms	DEQ Verify
$\boxtimes$		Form GI – Facility Information	
	$\boxtimes$	Form EU0 – Emissions Units General	
	×	Form EU1 - Industrial Engine Information Please Specify number of forms attached:	
		Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:	
	Ø	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:	
П		Form EU4 - Cooling Tower Information Please Specify number of forms attached:	
	$\square$	Form EU5 – Boiler Information Please Specify number of forms attached:	
	$\square$	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:	
$\boxtimes$		Form CBP - Concrete Batch Plant Please Specify number of forms attached:	
	$\square$	Form BCE - Baghouses Control Equipment	
	$\boxtimes$	Form SCE - Scrubbers Control Equipment	
		Forms EI-CP1 - EI-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)	
$\boxtimes$		PP – Plot Plan	
	$\square$	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	
	$\boxtimes$	Form FRA – Federal Regulation Applicability	

DEQ USE ONLY Date Received
Project Number
Payment / Fees Included?
Yes 🗌 No 🗌
Check Number



# PERMIT TO CONSTRUCT APPLICATION

Revision 1 01/11/07

Please see instructions on page 4 before filling out the form.

### **GENERAL INFORMATION**

Company Name:	EAGLE PRECAST COMPANY		
Facility Name:	CALDWELL, IDAHO		Facility ID No:
Brief Project Description:	CONCRETE BATCH PLANT		
Mailing Address:	20059 SIMPLOT BLD		
City:	CALDWELL	State:	IDAHO
Zip Code:	83605	County:	CANYON
General Nature of Business & Products:	PRECAST / PRESTRESSED CONCRETE MAN	IUFACTURING	3
Contact Name, Title:	ROBERT WALKER, PLANT MANAGER		
Phone:	(208) 454-8116	Cell: (	(208) 695-6116
Email:	robwalker@eagleprecast.com	n. Mac V-yo Ya canasanan ilinaa	
Owner or Responsible Official Name, Title:	ROBERT WALKER PLANT MANAGER		
Phone:	(208) 454-8116		
Email:	robwalker@eagleprecast.com		
Makentalah serikan pengangan pengangan kebadah mendadah dan pendasan pendasan menancah berandah sebagai kecama Serikan			
Proposed Initial Plant Location:	20059 SIMPLOT BLVD		
Nearest City:	GREENLEAF		
County:	CANYON	Estimated Startup Date	e: AUGUST 2005
County.	CANTON	Startup Date	s. A00001 2000
Reason for Application:	X Permit to construct a new source  Permit to operate an existing unpermitted so  Permit to modify/revise an existing permitted  Permit No.:  Issue Date:  Facility ID:		fy the permit below)
☐ Check here to indicat	e you would like to review a draft permit prior to fi	nal issuance.	
Comments:			
Eagle Precast moved to t	the Caldwell location from the old Monroc, Inc. loc	ation at highwa	ay 55 and State Street in Eagle.

## **CONCRETE BATCH PLANT INFORMATION**

## 1. Concrete Batch Plant

Manufacturer:	ERIE STRA MIXER	AYER 6 C.Y. DUAL Model:	CENTRAL MIX PLANT
Manufacture Date:	1987		
Maximum Hourly Th	roughput:	60 (cy/hour)	
Maximum Daily Thro	oughput:	480 (cy/day)	
Maximum Annual Th	roughput:	124,800 (cy/year)	
Requested Annual T	hroughput:	36,000 (cy/year)	

### 2a. Cement Storage Silo Baghouse No. 3

Manufacturer:	GRIFE	FIN ENVIORNMENTAL	Model: RCA6/36	33B
Stack Height from C	Fround:	98 (ft)	Exit Air Flow Rate:	(acfm)
Stack Inside Diamet	er:	8'X12' (ft)	* PM <sub>10</sub> Control Efficiency:	99.9 (%)
* Manufacturer Grai	n Loadir	ng Guarantee:		
		ontrol efficiency if available.		

## 2b. Cement Storage Silo Baghouse No. 4

Manufacturer: GRIFF	IN ENVIORNM	ENTAL	Model: RCA	.6/363B
Stack Height from Ground:	98 (ft)		Exit Air Flow Rate:	(acfm)
Stack Inside Diameter:	4'X12' (ft)		* PM <sub>10</sub> Control Efficier	ncy: 99.9 (%)
* Manufacturer Grain Loadin	g Guarantee:			
* Attach manufacturer's PM <sub>10</sub>	control efficienc	y if available.		

2c. Cement Supplement (such as flyash) Storage Silo Baghouse No.

Manufacturer:	N/A			Model:		
Stack Height from G	round:	(ft)		Exit Air Flow Ra	ite:	(acfm)
Stack Inside Diamete	er:	(ft)		* PM <sub>10</sub> Control I	Efficiency:	(%)
* Manufacturer Grain	Loadin	g Guarantee:				
* Attach manufacturer	′s PM <sub>10</sub>	control efficienc	y if available.			

2d. Cement Supplement (such as flyash) Storage Silo Baghouse No. \_\_\_\_\_

Manufacturer:	N/A			Model:		SECRETARIO DE SE O SECRETARIO DE SES DE SECRETARIO DE SECR
Stack Height from 0	Ground:	(ft)		Exit Air Flow	Rate:	(acfm)
Stack Inside Diame	ter:	(ft)		* PM <sub>10</sub> Contr	ol Efficiency:	(%)
* Manufacturer Grai	in Loadir	ng Guarantee:				
* Attach manufacture	er's PM <sub>10</sub>	control efficienc	y if available.			

# 3. Weigh Batcher Baghouse(s)

Manufacturer:	ERIE	STRAYER		Model:	
Stack Height from Gro	ound:	68' (ft)		Exit Air Flow Rate:	(acfm)
Stack Inside Diameter	<b>:</b> :	1.5'X6'X1.5'	(ft)	* PM <sub>10</sub> Control Efficiency:	99.9 (%)
* Manufacturer Grain	Loadin	g Guarantee:	Ady madatay		
* Attach manufacturer's	PM <sub>10</sub> (	control efficienc	y if available.		

# **ELECTRICAL GENERATOR SET INFORMATION (IF APPLICABLE)**

Manufacturer:	N/A	Model:
Maximum Rated Capa	city:	☐ Hp ☐ kW
Fuel Type:		☐ Gasoline ☐ Diesel ☐ Natural Gas ☐ Propane
Maximum Fuel Usage	Rate:	gal./hr. cfh
Maximum Daily Hrs. o	f Operations:	(hours/day)
Maximum Annual Hrs.	of Operations:	(hours/year)
Stack Parameters:	Total of the Market Turber	from Ground (ft): Stack Exhaust Flow Rate (acfm): ide Diameter (ft): Stack Exhaust Gas Temperature (°F):
ADDITIONAL GENER		
Manufacturer:	N/A	Model:
Maximum Rated Capa	city:	Hp kW
Fuel Type:		Gasoline Diesel Natural Gas Propane
Maximum Fuel Usage	Rate:	gal./hr. cfh
Maximum Daily Hrs. o	f Operations:	(hours/day)
Maximum Annual Hrs.	of Operations:	(hours/year)
Stack Parameters:		from Ground (ft): Stack Exhaust Flow Rate (acfm): Stack Exhaust Gas Temperature (°F):
⊠ \$1,000 PTC applic	ation fee enclo	sed
I hereby certify that ba	sed on informati ny attached and 24.	d Completeness (by Responsible Official) on and belief formed after reasonable inquiry, the statements and information l/or referenced document(s) are true, accurate, and complete in accordance with  Plant Manager  Responsible Official Title  2/20/07  Date

	-		province and the second	REACTOR CONTRACTOR CON						Bosenosassowiwansasiscasionnosa
	DEQ AIR QUALI 1410 N. Hilton Boise, ID 83706 For assistance:	DEQ AIR QUALITY PROGRAM 1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-0502	enn i general proposition som haven a derivate hald all a Constitution of the second source o				PERMIT TO CONSTRUCT APPLICATION	CONSTRU	JCT APPLIC	Z O L K
Company Name:	Eagle Precast Company	Company		ANTENNO PROTECTION ANTENNO PROTECTION ANTENNO PROTECTION AND ANTENNO PROTECTION ANTENNO PROTECTI						
Facility Name:					Eagle Precast Company, Caldwell, Idaho	aldwell, Idaho				
Facility ID No.: Brief Project Description:	Cement Batch Plant	Plant			AN					
	VI S	SUMMARY OF FACILITY WIDE EM	WIDE EMISS	ION RATES I	IISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES	TANTS - POINT SO	URCES			
-	6			SOS	NO.	3.	302		pao	
Emissions units	Stack ID	lb/hr T/yr	lb/hr	T/vr		lb/hr T/vr	lb/hr		lb/hr	T/vr
				Point So	Point Source(s)					
Cement delivery to silo (controlled)			0.00							
Weigh hopper loading (controlled)		0.23 0.07	7.2							
Central mix loading			31							
			-							
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	DEQ AIR QUALITY PROGRAM 1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-0502	TY PROGRAM (208) 373-0502	<u>ann an </u>						Д.	RMIT TO	PERMIT TO CONSTRUCT APPLICATION	JCT APPL	CATION
Company Name:	Eagle Precast Company	трапу	-		***************************************								
Facility Name:					Eag	Eagle Precast Company, Caldwell, Idaho	npany, Caldw	ell, Idaho					
Facility ID No.:							NA						
Brief Project Description:	Cement Batch Plant	ant											
	SUMI	SUMMARY OF FACILITY WIDE EMI	SILITY WILDIS	EMISSION RAT	ES FOR	SSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES	OLLUTAN	ITS - FUGIT	IVE SOUR(	SE			
	6	PMA	40	SO,		Ŷ	3.	C		200	٠	4	pad
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	Ib/hr T	T/yr	8 80	T/wr	lb/hr	T/vr	lb/hr	T/yr	lb/hr	Tíyr
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Sand transfer to dround storage	)	2 0	20.00										
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Aggregate transfer to conveyor		200	an n										
Sand transfer to conveyor		0.04	0.01										
Aggregate transfer to elevated storage	rage	0.19	0.06										
Sand transfer to elevated storage		0.04	0.01										
							HOSSELE CO.						
							SOUTH AND ASSESSED.						
											eneces in our		
(insert more rows as needed)													
Total		0.68	0.21										



# Department of Environmental Quality 1410 N. Hilton Boise, ID 83706

For assistance, call the Air Permit Hotline: 1-877-5PERMIT

# DEQ - AIR QUALITY PROGRAM PORTABLE EQUIPMENT RELOCATION FORM

Company Name: EAGLE PRECAST COMPANY			PORTABLE E	QUIPME	NT	RELOCATION FORM
Mailing Address: 20059 SIMPLOT BLD  Contact: ROBERT WALKER, PLANT MANAGER  Signature: Locat Walker.  Plant Type (HMA, Rock Crusher, Mfr., Model No.)  Type of Permit  Permit by Rule  Permit by Rule  Permit by Rule  Yes  No  If Yes, Facility ID: To be determined; applying for permit.  Permit by Rule  Yes  No  If Yes, Facility ID:  Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated?  Yes  No  If Yes, Facility ID:  Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated?  Yes  No  If Yes, Facility ID:  Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated?  Yes  No  If Yes, Facility ID:  Stimated Startup Date: August 2005  Estimated End Date: NA  (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Type of Plant: One Rock Crusher or Concrete Batch or Hot-Mix Asphalt  Yes  No  If Yes, Facility ID:  Permit by Rule  Yes  No  If Yes, Facility ID:  Yes  No  If Yes, Facility ID:  Yes  No  State of Idaho Contact Person:  Phone Number:	Compa	any Name:	EAGLE PRECAST COMPA	'NY		
Contact: ROBERT WALKER, PLANT MANAGER  Signature: Cucker, Mfr., Model No.)  Plant Type (HMA, Rock Crusher, Mfr., Model No.)  Type of Permit Permit by Rule Permit by Rule Permit by Rule Permit by Rule Permit by Facility ID: To be determined; applying for permit.  Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated? Yes No If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005 Estimated End Date: NA (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new Yes  If Yes No If Yes, Facility ID: Operating Permit Permit to Construct or Operating Permit Permit by Rule Yes No If Yes, Facility ID: View Facility ID: View Contract No: Yes State of Idaho Contact Person: Phone Number:	Phone	Number:	(208) 454-8116			
Plant Type (HMA, Rock Crusher, Mfr., Model No.)  Type of Permit  Permit to Construct or Operating Permit  Permit by Rule  Permit by Rule  Permit to Sair pollution equipment been replaced or modified since the plant last operated? Yes No If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005  Estimated Startup Date: August 2005  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new Type of Permit to Constructor Yes No If Yes, Facility ID:  Will plant be operated in conjunction with a state of Idaho contract?  Will plant be operated in conjunction with a state of Idaho contract?  Yes  State of Idaho Contact Person: Phone Number:	Mailin	g Address:	20059 SIMPLOT BLD			
Plant Type (HMA, Rock Crusher, Mfr., Model No.)  Type of Permit Permit to Construct or Operating Permit Permit by Rule Permit be Rule Permit be Rule Rule Permit be Rule Rule Rule Rule Ru	Contac	ct: ROBER	T WALKER, PLANT MANAC	3ER		
Plant Type (HMA, Rock Crusher, Mfr., Model No.)  Type of Permit  Permit to Construct or Operating Permit  Permit by Rule  Permit by Rule  Permit by Rule  Permit by Rule  Yes  No  If Yes, Facility ID: To be determined; applying for permit.  Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated? Yes  No  If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005  (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Name of Other Company:  Type of Permit  Type of Permit to Construct or Operating Permit  Permit to Construct or Yes No If Yes, Facility ID:  Operating Permit  Permit by Rule  Yes No If Yes, Facility ID:  Viel plant be operated in conjunction with a state of Idaho contract?  Yes  State of Idaho Contact Person:  Phone Number:	Signat	ure: RM	ex Walker	-		Date: 2/20/07
(HMA, Rock Cruster, Mfr., Model No.)  Type of Permit  Permit to Construct or Operating Permit  Permit to Construct or Operating Permit.  No If Yes, Facility ID: To be determined; applying for permit.  Permit by Rule Yes No If Yes, Facility ID:  Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated? Yes No If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005  Estimated End Date: NA  (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  No  No  No  No  No  No  If Yes, Facility ID:  Ves No If Yes, Facility ID:  Ves No If Yes, Facility ID:  Vermit to Construct or Operating Permit  Permit by Rule Yes No If Yes, Facility ID:  Vill plant be operated in conjunction with a state of Idaho contract?  Yes State of Idaho Contact Person: Phone Number:		1				
Type of Permit  Permit to Construct or Operating Permit  Permit by Rule  Permit be Construct or Construct or Construct or Construct or Constru	Plant <sup>-</sup>	Гуре				
Type of Permit  Permit by Rule  Permit by Rule  Permit by Rule  Permit by Rule  Yes  No  If Yes, Facility ID:  Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated? Yes  No  If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005  Estimated End Date: NA  (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Name of Other Company:  Type of Plant: Rock Crusher Concrete Batch Hot-Mix Asphalt  Permit to Construct or Operating Permit  Permit by Rule  Yes  No  If Yes, Facility ID:  Will plant be operated in conjunction with a state of Idaho contract?  Yes  State of Idaho Contact Person:  Phone Number:	(HMA,	Rock Crus	her, Mfr., Model No.)			
Fuel Type for Generator: NA  Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated? Yes No If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005	Туре	of Permit		Yes	No	
Have any major components of the plant or its air pollution equipment been replaced or modified since the plant last operated? Yes No If Yes, attach explanation on additional paper.  Current Location, include county and nearest city: 20059 SIMPLOT BLD  New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005			Permit by Rule	Yes	No	If Yes, Facility ID:
Last operated? Yes   No   If Yes, attach explanation on additional paper.	Fuel T	ype for Ge	nerator: NA	•		
New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005			Security of the second security of the second secon			•
New Location, include county and nearest city: Greenleaf, Canyon County  Estimated Startup Date: August 2005					Maria de la companya	
Estimated Startup Date: August 2005  (month/day/year)  Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?  Name of Other Company:  Type of Plant: • Rock Crusher • Concrete Batch • Hot-Mix Asphalt  Type of Permit by Rule   Yes No   If Yes, Facility ID:  Operating Permit by Rule   Yes No   If Yes, Facility ID:  Will plant be operated in conjunction with a state of Idaho contract?  Yes No   If Yes, Facility ID:  Type of Permit by Rule   Yes No   If Yes, Facility ID:  State of Idaho Contact Person: Phone Number:						
Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?    Mame of Other Company:   Type of Plant:			-	city: Gree	enlea	
Will Plant be co-located with another rock crusher, concrete batch, or hot-mix asphalt plant at new location?    Name of Other Company:   Type of Plant:   Rock Crusher   Concrete Batch   Hot-Mix Asphalt			· -			
Name of Other Company:   Type of Plant:	(mont	h/day/year				(month/day/year)
If Yes Type of Plant: • Rock Crusher • Concrete Batch • Hot-Mix Asphalt    Permit to Construct or Operating Permit   Permit by Rule   Yes No If Yes, Facility ID:	locatio	n?		crusher, co	ncre	
Yes	TE -					
Type of Permit	1	Type of Pla		·		-
Will plant be operated in conjunction with a state of Idaho contract?  Yes  If Contract No.:  Yes  State of Idaho Contact Person:  Phone Number:				Yes N	0	If Yes, Facility ID:
If Contract No.: Yes State of Idaho Contact Person: Phone Number:		Permit	Permit by Rule	Yes N	0	If Yes, Facility ID:
Yes State of Idaho Contact Person: Phone Number:	,	•		a state of I	Idah	Management of the Control of the Con
Phone Number:	ļ		********	- Part of Part of State of Sta		
	- Inner					
				TTED TEN	(10)	DAYS BEFORE PLANT IS RELOCATED.

A scaled plot plan identifying the property boundary of the new site must be included with this form (see Permit Application Form PP-Plot Plan for guidance).

Mail to:

Air Quality Program Office - Application Processing

**Department of Environmental Quality** 

1410 North Hilton Boise, ID 83706-1255

Or, Fax to: 208-373-0340

Attn: Air Quality Program Office - Application Processing

# EAGLE PRECAST Greenleaf Concrete Batch Plant

# CONCRETE BATCHING EMISSIONS

Eagle Precast Company 20058 Simplot Blvd, Greenleaf, Canyon County, Idaho

	PM Em	PM Emissions	u∃ ⁰¹Wd	PM <sub>10</sub> Emissions
	lb/hr	tpy	lb/hr	tpy
Fugitive	1.42	0.43	0.68	0.21
Point	9.18	2.75	2.94	0.88

				The state of the s		-	The same of the sa		
Location	Fucitive or Doint	Throughput	ghput	PM Emission	Day Conjustion Product	PM Emissions	ssions	PM <sub>10</sub> En	PM <sub>10</sub> Emissions
669701	aguite of 1 our	yd³/hr	yd³/yr	Factor <sup>2</sup>	TIM10 DIMISSION TACTOR	lb/hr	tpy	lb/hr	tpy
Aggregate transfer to ground storage	Fugitive	09	36,000	0.0064 lb/yd <sup>3</sup>	0.0031 lb/yd <sup>3</sup>	0.38	0.12	0.186	90.0
Sand transfer to ground storage	Fugitive	09	36,000	0.0015 lb/yd <sup>3</sup>	0.0007 lb/yd³	0.09	0.03	0.042	0.01
Aggregate transfer to conveyor	Fugitive	9	36,000	0.0064 lb/yd <sup>3</sup>	0.0031 lb/yd <sup>3</sup>	0.38	0.12	0.186	90.0
Sand transfer to conveyor	Fugitive	09	36,000	0.0015 lb/yd <sup>3</sup>	0.0007 lb/yd <sup>3</sup>	0.09	0.03	0.042	0.01
Aggregate transfer to elevated storage	Fugitive	09	36,000	0.0064 lb/yd <sup>3</sup>	0.0031 lb/yd <sup>3</sup>	0.38	0.12	0.186	90.0
Sand transfer to elevated storage	Fugitive	99	36,000	0.0015 lb/yd <sup>3</sup>	0.0007 lb/yd <sup>3</sup>	60.0	0.03	0.042	0.01
Cement delivery to silo (controlled)	Point	09	36,000	0.0002 lb/yd <sup>3</sup>	0.0001 lb/yd³	0.01	0.00	900.0	0.002
Weigh hopper loading (controlled)	Point	09	36,000	0.0079 lb/yd <sup>3</sup>	0.0038 lb/yd <sup>3</sup>	0.47	0.14	0.228	0.068
Central mix loading	Point	09	36,000	0.144943 lh/vd <sup>3</sup>	0.045122 lb/vd <sup>3</sup>	8.70	2.61	2.707	0.812

Controlled and uncontrolled emission factors are the same for all processes, except. Central Mix Loading, see AP-42 reference given in Footnote 2 AP-42, 5th Edition, Table 11.12-2, -5

# Greenleaf Concrete Batch Plant **EAGLE PRECAST**

# CENTRAL MIX LOADING EMISSION FACTOR EQUATIONS

Equation 11.1 Emission factor in Ib., 100 of cement and cement supplement abritle size multiplier (dimensionlies).

Wind speed at the undersid dop point, miles per how (aph).

Minimum moisume (% by weight) of cement and cement supplement.

Exponents

Constant. specific data at ...  $E = k (0.0032) \left[ \frac{U^a}{M^b} \right] + c$ 

Equation para	meters for c	entral mix	operatio	ns		
~	Ø	Φ	S			
PM 5.9 0.6 1.3	5.9	9.0	£.	0.12	5	10
PM-10	1.92	0.4	3.3	0.04	= W	4
₽M						
controlled	0.19	0.95	6.0	0.001		
controlled	0.13	0.95	6.0	0.001		

10 Default4 Natural moisture

-5 ≝

0.995 0.013 0.3 0.0052

0.995

0.995 1.75 1.75

0.995 0.8 0.32

PM PM-10 PM

Natural moisture Default

0.3

controlled PM-10

controlled

Equation parameters for truck mix operations

Table 11.12-4. Equation Parameters for Central Mix Operations

Condition	Category	.:4	es	۵	ن
	Total PM	0,19	0.95	0.9	0.0010
Controlled	$PM_{10}$	0.13	0.45	6.0	0.0010
Controlled	PM10.2.5	0.12	0.45	6.0	0.0009
	PM <sub>2.5</sub>	0.03	0.45	6.0	0.0002
	Total PM	5.90	9.0	1.3	0.120
Theopathodi	$PM_{10}$	1.92	0.4	1.3	0.040
CHECHICATES	PM10.2.5	1.71	0.4	1.3	0.036
	PM <sub>2.5</sub>	0.38	0.4	1.3	0
	3 3 11 27	-			

0.00468 0.00078 0.0052

> 0.278 0.995

PM2.5 Total PM

PM<sub>10-2.5</sub> PM<sub>2.5</sub>

 $PM_{10}$ 

Uncontrolled

0.013

۵.

¢

أكشد

Parameter Category

Condition

Total PM

PM<sub>10</sub> PM<sub>10-2.5</sub>

Controlled<sup>i</sup>

Table 11.12-3. Equation Parameters for Truck Mix Operations

nission factors expressed in Ibs/tons of cement and cement supplement

envert from units of lbs/ton to units of kilograms per mega gram, the emissions calculated by

TABLE 11.12-6 (ENGLISH UNITS)
PLANT WIDE EMISSION FACTORS PER YARD OF CENTRAL MIX CONCRETE

PM   PM-10   PM-10		Unco	Uncontrolled	Con	Controlled
(lbyyd') (lbyd') (lbyd') 0.0064 0.0031 0.0064 0.0015 0.0007 0.0013 0.0064 0.0031 0.0064 0.0015 0.0007 0.0015 0.0064 0.0031 0.0064 0.0015 0.0001 0.0064 0.0002 0.0001 0.0002 0.0002 0.0003 0.0002 0.0003 0.0003		PM	PM-10	PM	PM-10
0.0064 0.0081 0.0064 0.0015 0.0007 0.0013 0.0064 0.0031 0.0064 0.0015 0.0007 0.0015 0.0064 0.0031 0.0064 0.0015 0.0007 0.0015 0.0002 0.0001 0.0002 0.0001		(lb/yd²)	(Ib/yd²)	(lb/yd²)	(lb/yd²)
0.0015 0.0007 0.0015 0.0064 0.0031 0.0064 0.0015 0.0015 0.0015 0.0064 0.0031 0.0064 0.0015 0.0001 0.00015 0.0002 0.0001 0.00015 0.0002 0.0001 0.0003	Aggregate delivery to ground storage (3-05-011-21)	0.0064	0.0031	0.0064	0.0031
0.0064 0.0031 0.0064 0.0015 0.0007 0.0015 0.0064 0.0031 0.0064 0.0005 0.0001 0.0005 0.0003 0.0002 0.0003 0.0003 0.0002 0.0003	Sand delivery to ground storage (3-05-011-22)	0.0015	0.0007	0.0013	0.0007
0.0015 0.0007 0.0015 0.0064 0.0031 0.0064 0.0015 0.0007 0.0015 0.0002 0.0001 0.0002 0.0003 0.0002 0.0003 0.0003 0.0003	Aggregate transfer to conveyor (3-05-011-23)	0.0064	0.0031	0.0064	0.0031
0.0004 0.0031 0.0064 0.0015 0.0007 0.0015 0.0002 0.0001 0.0002 0.0003 0.0002 0.0003	Sand transfer to conveyor (3-05-011-24)	0.0015	0.0007	0.0015	0.0007
0.00015 0.0007 0.00015 0.0002 0.0001 0.0002 0.0003 0.0002 0.0003	Aggregate transfer to elevated storage (3-05-011-04)	0.0064	0.0031	0.0064	0.0031
controlled) 0.0002 0.0001 0.0002 0.0003 0.0003 0.0003	Sand transfer to elevated storage (3-05-011-05)	0.0015	0.0007	0.0015	0.0007
0.0003 0.0002 0.0003	Cement delivery to Silo (3-05-011-07 controlled)	0.0002	0.0001	0.0002	0.0001
0.0070 0.0038 0.0038	Cement supplement delivery to Silo (3-05-011-17 controlled)	0.0003	0.0002	0.0003	0.0002
A:00:01 0:00:01	Weigh hopper loading (3-05-011-08)	0.0079	0.0038	0.0079	0.0038
Central mix loading (3-05-011-09) See Equation 11.12-2	Central mix loading (3-05-011-09)		See Equat	tion 11.12-2	

\* Total facility emissions are the sum of the emissions calculated in Tables 11.12-4 or 11.12-5.

Total facility emissions do not include road dust and wind blown dust. The emission factors in Tables 11.12-5 are based upon the following composition of one yard of concrete Coarse Aggregate 1865, pounds

Sand 11.28, pounds

Cement 79, pounds

Cement 73, pounds

Valetr 73, pounds

Valetr 75, pounds

JBR Environmental Consultants, Inc.

# Greenleaf Concrete Batch EAGLE PRECAST

# CONCRETE BATCHING METAL EMISSIONS

Concrete 1	Concrete Throughput	Concrete Throughput <sup>1</sup>	roughput <sup>1</sup>
yd³/hr	yd³/yr	ton/hr	ton/yr
90	36,000	121	72,432

			Lead	Manganese	Nickel	Phosphorus	Selenium
Significant Level 0.00007 0.000001 0.00001	 0.00006	0.00001	0.00004 0.6 tpy	0.00953	0.00076	0.00116	0.0000.0

Hourly Emissions (lb/hr)	Arsenic	Beryllium	Cadmium	Chromium	Chromium 6*	Lead	Manganese	Nickel	Phosphorus	Selenium
	0.00023	0.0000022	0.00003	0.00020	0.00004	0.00013	0.03177	0.00252	0.00386	0.0000
EL (lb/hr)	1.56E-06	2.85E-05	3.70E-06	3.30E-02	5.60E-07	NA	3.33E-01	2.75E-05	7.00E-03	1.30E-02
Modeling Required?	ŞƏ	No	Yes	No	Yes	No	No	Yes	No	No

				***************************************						
00000					Emission Factors (Ib/ton)	tors (Ib/ton)				
2000	Arsenic	Beryllium	Cadmium	Chromium	Chromium 6*	Lead	Manganese	Nickel	Phosphorus	Selenium
Cement Silo Filling	1.68E-06	1.79E-08	2.34E-07	2.52E-07	5.04E-08	7.36E-07	2.02E-04	1.76E-05	1.18E-05	QN
Central Mix Batching	2.32E-07	Q	1.18E-08	1.42E-06	2.84E-07	3.82E-07	6.12E-05	3.28E-06	2.02E-05	2
					Emissions (lb/hr)	s (Ib/hr)				
Process										
	Arsenic	Beryllium	Cadmium	Chromium	Chromium 6*	Lead	Manganese	Nickel	Phosphorus	Selenium
Cement Silo Filling	0.00020	0.0000	0.00003	0.00003	0.00001	6000000	0.02439	0.00212	0.00142	0
Central Mix Batching	0.00003	0	0.00000	0.00017	0.00003	0.00005	0.00739	0.00040	0.00244	0
					Emissions (tpy)	ıs (tpy)				
Process										
	Arsenic	Beryllium	Cadmium	Chromium	Chromium 6*	Lead	Manganese	Nickel	Phosphorus	Selenium
Cement Silo Filling	0.00006	0.0000	0.00001	0.00001	0.0000.0	0.00003	0.00732	0.00064	0.00043	0
Central Mix Batching	0.00001	0	0.00000	0.00005	0.00001	0.00001	0.00222	0.00012	0.00073	0

Tone cubic yard of concrete is 4,024 pounds, AP-42, Fifth Edition, Table 11.12-2, footnote a. 20% of chromium based on conversation with Cheryl Robinson, 2-1-07.

# TABLE 11.12-8 (ENGLISH UNITS) CONCRETE BATCH PLANT METAL EMISSION FACTORS \*

	Arsenic	Beryllium	Cadminan	Total	Lead	Mangamese	Nickel	Total	Selentan	Emission Factor Rating
Cement Sito Filling * (SCC 3-05-011-07) w/ Fabric Filter	1.68e-06 4.24e-09	1.79e-08 4.86e-10	2.34e-07 4.86e-10	2.52e-07 2.90e-08	7.36e-07 1.09e-08	2.02e-04 1.17e-07	1.76e-05 4.18e-08	1.18e-05 ND	22	171 171
Cement Supplement Sido Filling ( (SCC 3-05-011-17) w/ Fabric Filter	ND 1.00e-06	ND 9.04e-0\$	ND 1.98e-10	ND 1.22e-06	ND 5.20e-07	ND 2.56e-0.7	ND 2.28e-06	ND 3.54e-06	ND 7,24e-08	шщ
Central Mix Batching 1 (SCC 3-05-011-09) w/Fabric Filter	2.32e-07 1.87e-08	22	1.18e-08 7.10e-10	1.42e-06 1.27e-07	3.82e-07 3.66e-08	6.12e-05 3.78e-06	3.286-06	2.02e-05 1.20e-06	22	바바
Truck Loading * (SCC 3-05-011-10) w/Fabric Filter	3.04e-06 1.16e-06	2.44e-07 1.04e-07	3,42e-08 9,06e-09	1.14e-05 4.10e-06	3.62e-06 1.53e-06	6.12e-05 2.08e-05	1.19e-05 4.78e-06	3.84e.05 1.23e-05	2.62e-06 1.13e-07	tri tri

ND=No data



1410 NORTH HILTON, BOISE, ID 83706 · (208) 373-0502

C. L. "BUTCH" OTTER, GOVERNOR TONI HARDESTY, DIRECTOR

February 15, 2007

Chris Johnson JBR Boise Office

RE:

Modeling Protocol for the Eagle Precast Facility Located near Greenleaf, Idaho

Chris:

DEQ received your dispersion modeling protocol on February 14, 2007. The modeling protocol was submitted on behalf of Eagle Precast Company. The modeling protocol proposes methods and data for use in the ambient impact analyses of a Permit to Construct application for a new central mix concrete batch plant near Greenleaf, Idaho.

The modeling protocol has been reviewed and DEQ has no additional comments. DEQ's modeling staff considers the submitted dispersion modeling protocol to be approved, and DEQ concurs that additional modeling analyses are not required.

When submitting the application, please attach the protocol and this protocol approval notification.

If you have any further questions or comments, please contact me at (208) 373-0112.

Sincerely,

Kevin Schilling Stationary Source Air Modeling Coordinator Idaho Department of Environmental Quality 208 373-0112

### Air Dispersion Modeling Protocol – Concrete Batch Plant

Proposed Project: Eagle Precast Company

Location: Initial location 20059 Simplot Blvd, outside Greenleaf, Canyon County, Idaho

The proposed facility will be a central mix concrete batch plant capable of producing 60 yd³ per hour and 36,000 yd³ per year. The emission inventory for the facility is provided in the accompanying spreadsheet. It shows PTE for PM-10 would be 1.09 tons/yr, 0.88 tons/yr from point sources and 0.21 tons/yr from fugitives.

That emission inventory clearly documents compliance with IDEQ EI recommendations from Cheryl Robinson, documented below

- a. Emissions will be calculated using AP-42 emission factors and good engineering judgment.
- b. Fugitive emissions sources will be included in the EI, except for emissions resulting from vehicle traffic and wind erosion from storage piles.
- c. The level of emissions control assumed for each source will be clearly specified.
- d. Cr+6 will be presumed to comprise 20% of the total chromium emissions from cement silo filling, and 30% of the total chromium emissions from cement supplement (flyash) silo filling.
- 2) The proposed project will be reasonably represented by all of the criteria specified below. The IDEQ general analysis should be very conservative, because proposed throughput at the Eagle Precast Greenleaf area operation will be no more than 20% of the assumptions IDEQ modeled. Eagle Precast agrees to accept permit conditions requiring continuing compliance with the set-up, and throughput entries listed under Eagle PreCast in Table 1 below, and stack height, minimum setback distance(s), and control equip,ment requirements listed under Criteria IDEQ Modeled described in Table 1. The proposed permit conditions are highlighted in yellow in Table 1. Eagle Precast is requesting that the DEQ generic model results be used to demonstrate preconstruction compliance with NAAQS and TAPs for this project. No additional modeling analysis will be submitted for this project.

Table 1. CRITERIA FOR USING DEQ'S CONCRETE BATCH PLANT GENERIC MODELING RESULTS FOR AIR IMPACT ANALYSES			
Parameter	Criteria IDEQ Modeled	Eagle Precast Actual / Proposed Conditions	
Concrete batch plant type	Truck mix (redi-mix) plant	Central Mix	
Operation in any PM <sub>10</sub> nonattainment area.	Not proposed.	Not proposed	
Maximum daily concrete production	3,600 yd³/day	60 yd³/hr, or up to 720 yd³/day with 12 hrs operation/day	
Maximum annual concrete production	500,000 yd³/yr	36,000 yd³/yr	

Minimum stack height for cement and supplement storage silo baghouse(s)	10 meters (32.8 ft)	98'
Minimum stack height for weigh hopper loading baghouse (s)	10 meters (32.8 ft)	68'
Minimum distance from nearest edge of any emissions source to the ambient air boundary	86 meters (282 ft)	> 400'
Minimum distance from nearest edge of any emissions source to any other source of emissions, including another concrete batch plant, hot mix asphalt plant, or rock crushing plant.	200 meters (656 ft)	> 1⁄4 mile
Minimum control of truck-mix loadout source	95% Control e.g., Boot/shroud, water sprays, or baghouse/cartridge filter	95% control; water is mixed in. Emissions for central mix less than truck mix loadout.
Minimum control of weigh hopper loading	95% Control e.g., boot/shroud, water sprays, or baghouse/cartridge filter	99.9%
Minimum control of fugitive emissions from aggregate and sand transfer point sources	75% Control e.g., water sprays, shrouds, or sand/aggregate is wet on an as-received basis, and used before significantly drying out.	At least 75% Achieved via Water sprays
Presence of a generator	No generator.	No generator



